coupled to the associated one of the electrical conductors; and

b. an encasement into which the sensor assembly is placed for directing the flow of the analyte over the sensors, and preventing contact of the analyte with the second side of the substrate, including:

i. an inlet for allowing the fluid analyte to enter the encasement;

ii. an outlet for allowing the fluid analyte to exit the encasement;

iii. a flow channel between the inlet and the outlet for allowing the fluid analyte to pass through the housing and over each of the sensors; and

iv. an opening at one side for exposing the electrical connector.

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6. (Thrice Amended) The sensor cartridge of claim 3, further including a third [an encasement material reducing] cell which reduces the amount of encasing material adjacent the flow channel, the third [encasement material reducing] cell and the reference cell disposed symmetrically about the flow channel.

F2

~~19.~~ 18. (Twice Amended) A sensor cartridge for a fluid analyte analyzer, comprising:

a housing having an inlet and an outlet and a flow channel for allowing the fluid analyte to enter the housing;

F3

a sensor assembly disposed in said flow channel between the inlet and the outlet;

said sensor assembly, comprising:

an electrically insulating [primary support] substrate on which said sensor assembly is formed, the substrate having a first side defined by a planar surface;

a plurality of sensors having a diameter between about 0.046 to about 0.078 inch deposited on said planar surface of said substrate;

a plurality of electrical conductors deposited on a second side of the substrate;

a plurality of subminiature thru-holes having a diameter in the range of about 0.002 to 0.006 inch filled with electrically conductive material, each thru-hole disposed directly under a corresponding one of the sensors for coupling one of the sensors with one of the electrical conductors; and

F3

an electrical connector disposed on the second side of the substrate, the connector having a plurality of electrical contacts, at least some of the electrical contacts corresponding one to one with an associated one of the electrical conductors and at least some of the electrical contacts being coupled to the associated one of the electrical conductors, said connector being accessible from the exterior of said housing.

20. 19. (Amended) The sensor cartridge of claim ~~19~~ 18, further comprising a reference cell, and a third [an encasement material reducing] cell which reduces the amount of encasing material adjacent the flow channel, the third [encasement material reducing] cell and the reference cell disposed symmetrically about the flow channel.

REMARKS

Claims 1-17 and 19-21 remain herein for consideration. Reconsideration in view of this amendment is requested.

The specification has been amended to change the reference to encasement material reducing cell back to its original form in response to the Examiner's objection.

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